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# TRANSMITTAL FORM

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| | |
|---|---|
| Application Number | 10/680,955 |
| Confirmation Number | 6066 |
| Filing Date | 10/08/2003 |
| First Named Inventor | Joseph Michael Christie |
| Art Unit | 2661 |
| Examiner Name | |
| Total Number of Pages in This Submission: 209 | Attorney Docket Number: 1115e |

**ENCLOSURES** ***(check all that apply)***

- ☐ Fee Transmittal Form
  - ☐ Fee Attached
- ☐ Amendment / Reply
  - ☐ After Final
  - ☐ Affidavits/declaration(s)
- ☐ Extension of Time Request
- ☐ Express Abandonment Request
- ☒ Information Disclosure Statement
- ☐ Certified Copy of Priority Document(s)
- ☐ Reply to Missing Parts/ Incomplete Application
  - ☐ Reply to Missing Parts under 37 CFR1.52 or 1.53
- ☐ Drawing(s)
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- ☐ Petition to Convert to a Provisional Application
- ☐ Power of Attorney, Revocation Change of Correspondence Address
- ☐ Terminal Disclaimer
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- ☐ After Allowance Communication to TC
- ☐ Appeal Communication to Board of Appeals and Interferences
- ☐ Appeal Communication to TC **(Appeal Notice, Brief, Reply Brief)**
- ☐ Proprietary Information
- ☐ Status Letter
- ☒ Other Enclosure(s) *(please identify below)*:

14 foreign patents;
3 non patent literature documents; and
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**Remarks** **It is believed that no fees are due in this matter. However, if it is determined that fees are due, the Commissioner is authorized to debit Deposit Account No. 210765 for the required fees.**

**I hereby state that each item of information contained in this Information Disclosure Statement is being filed before the mailing date of a first Office Action on the merits pursuant to 37 CFR 1.97(b).**

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| | | | |
|---|---|---|---|
| Firm | Setter Ollila LLC | | |
| Signature | | | |
| Printed Name | Stephen S. Roche | | |
| Date | 12-20-05 | Reg. No. | 52,176 |

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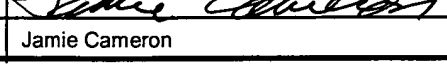
| Signature |  | | |
| Typed or printed name | Jamie Cameron | Date | 12-20-05 |

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# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

*(Use as many sheets as necessary)*

Sheet 1 of 4

| *Complete if Known* | |
|---|---|
| *Application Number* | 10/680,955 |
| *Filing Date* | 10/08/2003 |
| *First Named Inventor* | Joseph Michael Christie |
| *Art Unit* | 2661 |
| *Examiner Name* | |
| *Attorney Docket Number* | 1115e |

## U.S. PATENT DOCUMENTS

| Examiner Initials * | Cite No.[1] | Document Number<br>Number - Kind Code[2] (*if known*) | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
|---|---|---|---|---|---|
| | 1 | US- 4,720,850 | 01/19/1988 | Oberlander et al. | |
| | 2 | US- 4,730,312 | 03/08/1988 | Johnson et al. | |
| | 3 | US- 4,736,364 | 04/05/1988 | Basso et al. | |
| | 4 | US- 4,748,658 | 05/31/1988 | Gopal et al. | |
| | 5 | US- 4,757,526 | 07/12/1988 | Foster et al. | |
| | 6 | US- 4,763,317 | 08/09/1988 | Lehman et al. | |
| | 7 | US- 4,853,955 | 08/01/1989 | Thorn et al. | |
| | 8 | US- 5,003,584 | 03/26/1991 | Benyacar et al. | |
| | 9 | US- 5,048,081 | 09/10/1991 | Gavaras et al. | |
| | 10 | US- 5,051,983 | 09/24/1991 | Kammerl | |
| | 11 | US- 5,089,954 | 02/18/1992 | Rago | |
| | 12 | US- 5,115,427 | 05/19/1992 | Johnson, Jr. et al. | |
| | 13 | US- 5,185,743 | 02/09/1993 | Murayama et al. | |
| | 14 | US- 5,204,857 | 04/20/1993 | Obara | |
| | 15 | US- 5,251,255 | 10/05/1993 | Epley | |
| | 16 | US- 5,258,979 | 11/02/1993 | Oomuro et al. | |
| | 17 | US- 5,271,010 | 12/14/1993 | Miyake et al. | |
| | 18 | US- 5,274,635 | 12/28/1993 | Rahman et al. | |
| | 19 | US- 5,282,244 | 01/25/1994 | Fuller et al. | |
| | 20 | US- 5,289,472 | 02/22/1994 | Cho | |
| | 21 | US- 5,291,492 | 03/01/1994 | Andrews et al. | |
| | 22 | US- 5,327,421 | 07/05/1994 | Hiller et al. | |
| | 23 | US- 5,339,318 | 08/16/1994 | Tanaka et al. | |
| | 24 | US- 5,345,443 | 09/06/1994 | D'Ambrogio et al. | |
| | 25 | US- 5,345,445 | 09/06/1994 | Hiller et al. | |
| | 26 | US- 5,345,446 | 09/06/1994 | Hiller et al. | |
| | 27 | US- 5,363,433 | 11/08/1994 | Isono | |
| | 28 | US- 5,375,124 | 12/20/1994 | D'Ambrogio et al. | |
| | 29 | US- 5,377,186 | 12/27/1994 | Wegner et al. | |
| | 30 | US- 5,392,402 | 02/21/1995 | Robrock, II | |
| | 31 | US- 5,420,858 | 05/30/1995 | Marshall et al. | |
| | 32 | US- 5,422,882 | 06/06/1995 | Hiller et al. | |
| | 33 | US- 5,425,090 | 06/13/1995 | Orriss | |
| | 34 | US- 5,428,609 | 06/27/1995 | Eng et al. | |
| | 35 | US- 5,434,852 | 07/18/1995 | La Porta et al. | |
| | 36 | US- 5,434,981 | 07/18/1995 | Lenihan et al. | |
| | 37 | US- 5,438,527 | 08/01/1995 | Feldbaumer et al. | |
| | 38 | US- 5,440,626 | 08/08/1995 | Boyle et al. | |
| | 39 | US- 5,444,713 | 08/22/1995 | Backaus et al. | |
| | 40 | US- 5,452,297 | 09/19/1995 | Hiller et al. | |
| | 41 | US- 5,452,350 | 09/19/1995 | Reynolds et al. | |
| | 42 | US- 5,457,684 | 10/10/1995 | Bharucha et al. | |
| | 43 | US- 5,459,722 | 10/17/1995 | Sherif | |
| | 44 | US- 5,469,501 | 11/21/1995 | Otsuka | |
| | 45 | US- 5,473,677 | 12/05/1995 | D'Amato et al. | |
| | 46 | US- 5,473,679 | 12/05/1995 | La Porta et al. | |
| | 47 | US- 5,483,527 | 01/09/1996 | Doshi et al. | |

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# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

*(Use as many sheets as necessary)*

Sheet 2 of 4

| *Complete if Known* | |
|---|---|
| *Application Number* | 10/680,955 |
| *Filing Date* | 10/08/2003 |
| *First Named Inventor* | Joseph Michael Christie |
| *Art Unit* | 2661 |
| *Examiner Name* | |
| *Attorney Docket Number* | 1115e |

## U.S. PATENT DOCUMENTS

| Examiner Initials * | Cite No.[1] | Document Number<br>Number - Kind Code[2] (*if known*) | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
|---|---|---|---|---|---|
| | 48 | US- 5,495,484 | 02/27/1996 | Self et al. | |
| | 49 | US- 5,509,010 | 04/16/1996 | La Porta et al. | |
| | 50 | US- 5,519,707 | 05/21/1996 | Subramanian et al. | |
| | 51 | US- 5,519,690 | 05/21/1996 | Suzuka et al. | |
| | 52 | US- 5,530,724 | 06/25/1996 | Abrams et al. | |
| | 53 | US- 5,537,461 | 07/16/1996 | Bridges et al. | |
| | 54 | US- 5,541,917 | 07/30/1996 | Farris | |
| | 55 | US- 5,550,834 | 08/27/1996 | D'Ambrogio et al. | |
| | 56 | US- 5,550,914 | 08/27/1996 | Clarke et al. | |
| | 57 | US- 5,563,939 | 10/08/1996 | La Porta et al. | |
| | 58 | US- 5,566,173 | 10/15/1996 | Steinbrecher | |
| | 59 | US- 5,568,475 | 10/22/1996 | Doshi et al. | |
| | 60 | US- 5,577,037 | 11/19/1996 | Takatori et al. | |
| | 61 | US- 5,579,311 | 11/26/1996 | Chopping et al. | |
| | 62 | US- 5,592,477 | 01/07/1997 | Farris et al. | |
| | 63 | US- 5,600,643 | 02/04/1997 | Robrock, II | |
| | 64 | US- 5,619,561 | 04/08/1997 | Reese | |
| | 65 | US- 5,623,491 | 04/22/1997 | Skoog | |
| | 66 | US- 5,635,980 | 06/03/1997 | Lin et al. | |
| | 67 | US- 5,640,446 | 06/17/1997 | Everett et al. | |
| | 68 | US- 5,673,262 | 09/30/1997 | Shimizu | |
| | 69 | US- 5,689,550 | 11/18/1997 | Garson et al. | |
| | 70 | US- 5,703,876 | 12/30/1997 | Christie | |
| | 71 | US- 5,706,286 | 01/06/1998 | Reiman et al. | |
| | 72 | US- 5,710,769 | 01/20/1998 | Anderson et al. | |
| | 73 | US- 5,745,553 | 04/28/1998 | Mirville et al. | |
| | 74 | US- 5,751,706 | 05/12/1998 | Land et al. | |
| | 75 | US- 5,765,108 | 06/09/1998 | Martin et al. | |
| | 76 | US- 5,784,371 | 07/21/1998 | Iwai | |
| | 77 | US- 5,793,765 | 08/11/1998 | Boer et al. | |
| | 78 | US- 5,802,045 | 09/01/1998 | Kos et al. | |
| | 79 | US- 5,825,780 | 10/20/1998 | Christie | |
| | 80 | US- 5,867,495 | 02/02/1999 | Elliott et al. | |
| | 81 | US- 5,867,562 | 02/02/1999 | Scherer | |
| | 82 | US- 5,867,571 | 02/02/1999 | Borchering | |
| | 83 | US- 5,872,785 | 02/16/1999 | Kienberger | |
| | 84 | US- 5,884,262 | 03/16/1999 | Wise et al. | |
| | 85 | US- 5,892,764 | 04/06/1999 | Riemann et al. | |
| | 86 | US- 5,926,464 | 07/20/1999 | Fraser | |
| | 87 | US- 5,940,393 | 08/17/1999 | Duree et al. | |
| | 88 | US- 5,940,491 | 08/17/1999 | Anderson et al. | |
| | 89 | US- 5,949,791 | 09/07/1999 | Byers et al. | |
| | 90 | US- 5,956,334 | 09/21/1999 | Chu et al. | |
| | 91 | US- 5,991,301 | 11/23/1999 | Christie | |

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# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 3 of 4

| *Complete if Known* | |
|---|---|
| *Application Number* | 10/680,955 |
| *Filing Date* | 10/08/2003 |
| *First Named Inventor* | Joseph Michael Christie |
| *Art Unit* | 2661 |
| *Examiner Name* | |
| *Attorney Docket Number* | 1115e |

## U.S. PATENT DOCUMENTS

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|---|---|---|---|---|---|
| | 92 | US- 5,999,594 | 12/07/1999 | Mizoguchi et al. | |
| | 93 | US- 6,026,091 | 02/15/2000 | Christie et al. | |
| | 94 | US- 6,034,950 | 03/07/2000 | Sauer et al. | |
| | 95 | US- 5,999,525 | 12/07/1999 | Krishnaswamy et al. | |
| | 96 | US- 6,069,890 | 05/30/2000 | White et al. | |
| | 97 | US- 6,088,749 | 07/11/2000 | Hebert et al. | |
| | 98 | US- 6,175,574 | 01/16/2001 | Lewis | |
| | 99 | US- 6,181,703 | 01/30/2001 | Christie et al. | |
| | 100 | US- 6,324,179 | 11/27/2001 | Doshi et al. | |
| | 101 | US- 6,487,200 | 11/26/2002 | Fraser | |
| | 102 | US- 6,546,003 | 04/08/2003 | Farris | |

## FOREIGN PATENT DOCUMENTS

| Examiner Initials* | Cite No.[1] | Foreign Patent Document<br>Country Code[3] - Number[4] - Kind Code[5] (*if known*) | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear | T[6] |
|---|---|---|---|---|---|---|
| | 103 | EP0439098 | 07/31/1991 | Tanabe et al. | | |
| | 104 | WO9214321 | 08/20/1992 | Takase et al. | | |
| | 105 | JP2215247 | 08/28/1990 | Tsuboi et al. | | |
| | 106 | JP1300738 | 12/05/1989 | Suzuki et al. | | |
| | 107 | JP1013534 | 01/18/1989 | Kamio et al. | | |
| | 108 | JP4180324 | 06/26/1992 | Atsushi et al. | | |
| | 109 | JP4196635 | 07/16/1992 | Osahide | | |
| | 110 | JP5327751 | 12/10/1993 | Hyodo et al. | | |
| | 111 | JP6006320 | 01/14/1994 | Baba et al. | | |
| | 112 | JP6209365 | 07/26/1994 | Toshiro et al. | | |
| | 113 | JP7250099 | 09/26/1995 | Koshiro et al. | | |
| | 114 | JP8149137 | 06/07/1996 | Nakajima et al. | | |
| | 115 | HU71152 | 11/28/1995 | Hiller et al. | | |
| | 116 | EP0935856 | 08/18/1999 | Christie et al. | | |
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# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 4 of 4

| *Complete if Known* | |
|---|---|
| *Application Number* | 10/680,955 |
| *Filing Date* | 10/08/2003 |
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| *Art Unit* | 2661 |
| *Examiner Name* | |
| *Attorney Docket Number* | 1115e |

**NON PATENT LITERATURE DOCUMENTS**

| Examiner Initials * | Cite No.[1] | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T[2] |
|---|---|---|---|
| | 117 | KURIBAYASHI, SHIN-ICHI; Advanced Signaling Protocol for Broadband ISDN Services; Electronics and Communications in Japan; Part 1, Volume 78, Number 1, Pages 1-12. | |
| | 118 | Hungarian office action dated June 23, 1999 citing Hungarian patent number HU170127 for Hungarian Application No. P9900232; 2 pages. | |
| | 119 | Russian office action dated April 22, 2002 citing Russian patent numbers RU2013011 and RU2007880 for Russian Application No. 99112956; 6 pages. | |
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